

NCBI Sequence Viewer

EXHIBIT 5

NCBI Nucleotide

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Related Sequences, OMIM, Protein, PubMed, Taxonomy, LinkOut

☐ 1: NM_005226. Homo sapiens endo...
[gi:4885194]

LOCUS NM_005226 1137 bp mRNA linear PRI 16-NOV-2000

DEFINITION Homo sapiens endothelial differentiation, sphingolipid
G-protein-coupled receptor, 3 (EDG3), mRNA.

ACCESSION NM_005226

VERSION NM_005226.1 GI:4885194

KEYWORDS

SOURCE human.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1137)
AUTHORS Yamaguchi, F., Tokuda, M., Hatase, O. and Brenner, S.
TITLE Molecular cloning of the novel human G protein-coupled receptor
(PCR) gene mapped on chromosome 9
JOURNAL Biochem. Biophys. Res. Commun. 227 (2), 608-614 (1996)
MEDLINE 97032811
PUBMED 8378560

REFERENCE 2 (bases 1 to 1137)
AUTHORS A1, S., Bleu, T., Huang, W., Hallmark, O.G., Coughlin, S.R. and
Goetzl, E.J.
TITLE Identification of cDNAs encoding two G protein-coupled receptors
for lysosphingolipids
JOURNAL FEBS Lett. 417 (3), 279-282 (1997)
MEDLINE 93072391
PUBMED 9109733

REFERENCE 3 (bases 1 to 1137)
AUTHORS Ancellin, N. and Hla, T.
TITLE Differential pharmacological properties and signal transduction of
the sphingosine 1-phosphate receptors EDG-1, EDG-3, and EDG-5
JOURNAL J. Biol. Chem. 274 (27), 18997-19002 (1999)
MEDLINE 93315836
PUBMED 1383399

REFERENCE 4 (bases 1 to 1137)
AUTHORS Spiegel, S.
TITLE Sphingosine 1-phosphate: a ligand for the EDG-1 family of
G-protein-coupled receptors
JOURNAL Ann. N. Y. Acad. Sci. 905, 54-60 (2000)
MEDLINE 20278382
PUBMED 10818441

REFERENCE 5 (bases 1 to 1137)
AUTHORS Hla, T., Lee, M.J., Ancellin, N., Thangada, S., Liu, C.H., Kluk, M.,
Chae, S.S. and Wu, M.T.
TITLE Sphingosine-1-phosphate signaling via the EDG-1 family of
G-protein-coupled receptors
JOURNAL Ann. N. Y. Acad. Sci. 905, 16-24 (2000)
MEDLINE 20278379

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PUBMED 10818438
 REFERENCE 6 (bases 1 to 1137)
 AUTHORS Hammel, H.M., Meyer Zu Heringdorf, D., Graf, E., Dobrev, D., Kortner, A., Schuler, S., Jakobs, K.H. and Ravens, U.
 TITLE Evidence for Edg-3 receptor-mediated activation of I(K.ACh) by sphingosine-1-phosphate in human atrial cardiomyocytes
 JOURNAL Mol. Pharmacol. 58 (2), 449-454 (2000)
 MEDLINE 20368609
 PUBMED 10908314
 COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The reference sequence was derived from X83864.1.
 Summary: This gene encodes a member of the family I of the G protein-coupled receptors, as well as the EDG family of proteins. This protein has been identified as a functional receptor for sphingosine 1-phosphate and likely contributes to the regulation of angiogenesis and vascular endothelial cell function.

FEATURES

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misc feature	697..894
	/note="7tm_1; Region: 7 transmembrane receptor (rhodopsin family)"

BASE COUNT 226 a 362 c 298 g 251 t

ORIGIN

initiation 1 atg jcaactg cctctccgcc gcgtctccag ccggtgcggg ggaacgagac cctgcgggag

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//

Goetzl EDG-3
primer 2 in an
antisense orientation

Revised: October 24, 2001.

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